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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,103	12/15/2003	William S. Houston	LEEE 200345	1856
27885 75	590 11/14/2005		EXAM	INER
	PE, FAGAN, MINNI	SHAW, CLIFFORD C		
	1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OH 44114		ART UNIT	PAPER NUMBER
	,		1725	

DATE MAILED: 11/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/735,103	HOUSTON ET AL.		
Office Action Summary	Examiner	Art Unit		
	Clifford C. Shaw	1725		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-40 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 18 June 2004 is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	☑ accepted or b)☐ objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1215, 0802.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa			

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Art Unit: 1725

Detailed Action

1.) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2.) Claims 1-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stava (6,291,798, cited by applicant) taken with Reynolds et al. (6,177,651). In figures 1, 6 and 7 and the discussion at column 6, line 55 through column 7, line 30, the patent to Stava (6,291,798) discloses an electric arc welding system and method with features claimed, including: providing current to first and second electrodes 342, 330 using first and second power supplies 10 and 10a; controlling high speed inverter A to create an arbitrary waveform as defined by the output on line 152; providing a timing circuit and waveform adjusting circuit at control 360 to control the relative phase of the waveforms and thus the periods of sustained opposite or identical polarity for the waveforms. The claims differ in calling for particular timing parameters (e.g., a cycle period of 10-20 ms with push or pull times of less than 5.0 ms) and in calling for particular waveforms. These differences do not patentably distinguish over the prior art. At the time applicant's invention was made, it would have been obvious to have operated the system of Stava (6,291,798) with the particular timing parameters claimed, the motivation being the teachings of Reynolds et al. (6,177,651) that such are useful when operating multiple a.c. arcs from separately independently controlled power supplies (see the discussion at column 10, line

for addressing particular welding situations.

59 through column 11, line 30 in Reynolds et al. (6,177,651)). In regard to the dependent claims calling for particular waveforms, it would have been obvious to have used any convenient waveform in the system of Stava (6,291,798), including those claimed, based on routine choices

Any inquiry concerning this communication should be directed to Clifford C Shaw at telephone number 571-272-1182. The examiner can normally be reached on Monday through Friday of the first week of the pay period and on Tuesday through Friday of the second week of the pay period.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Thomas G. Dunn, can be reached at 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Clifford C Shaw Primary Examiner

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